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EIA COLOR TELEVISION REPLACEMENT CYCLE STUDY

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Results of a Study Conducted by Market Facts, Inc.

Sponsored by Electronic Industries Association Consumer Electronics Group

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Direction of this Study was Provided by the:

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BACKGROUND AND OBJECTIVES

This report contains the results of a study of color TV ownership, replacement cycles, and certain factors which may affect the purchase rates of Color TV's. The objectives of the study were the following:

- 1. Describe current color TV ownership patterns.
- 2. Describe trends in purchasing color TV's.
- 3. Describe the replacement cycle of color TV's.
- 4. Examine the role of electronic peripherals in the purchase of color TV's.
- 5. Assess interest in new color TV products.

Directed by the Marketing Services Committee of the Video Division of the Consumer Electronics Group, a division of the Electronic Industries Association, this study was conducted by the Washington D.C. office of Market Facts, Inc., an independent marketing research company.

STUDY METHODS

A self-administered mail questionnaire was used to collect the data. Information was requested on all color TV's acquired by each household since 1970. Two versions were employed which differed only in question 21-23. Copies of the questionnaires are contained in the Appendix.

Market Facts' Consumer Mail Panel was used as the sample frame for the study. The sample draw consisted of 17,000 households which was balanced against national demographics using the following factors:

- region of the country
- population density
- income
- age
- household size.

A total of 12,581 usable returns were processed -- a 74 percent rate. Of these households, 11,742 owned color TV's and 839 did not. Households owning color TV's reported a total of 19,731 color TV's acquired since 1970. The survey was conducted between January 10 and February 10, 1985, just following the Christmas buying season.

A complete set of tabulations was prepared and provided to EIA. Findings in this report are selected from those tabulations. Some tables describe the characteristics and behavior of color TV owning households. Other tables are based upon new color TV's acquired between 1970 and 1984. The base for percentages is noted in each table.

HIGHLIGHTS OF THE FINDINGS

- In 1984, about 10 percent of color TV's were sold to first-time buyers. This proportion has been declining steadily during the past 15 years.
- The demographics of non-color TV households are relatively unpromising, i.e. relatively small households with low incomes.
- Nearly one-half (46%) of color TV households have more than one color TV. Twelve percent have three or more color TV's.
- Portable models represented 74 percent of color TV's sold in 1984 compared to 48 percent in 1970. In 1984, monitors represented 2 percent and projection TV's 1 percent of color TV's purchased by American households.
- The purchase price of color TV's has remained remarkably stable over the past 15 years.
- Remote control is becoming a common feature of color TV's. In 1984, 58 percent of all consoles sold and 37 percent of all portable models were equipped with remote control.
- Screen sizes of 21-27 inches dominate console color TV sales. Primarily, portable TV sales are for sets with 19-20 inch screens, although 13-14 inch portables are becoming increasingly more popular.
- In 1984 about 40 percent of color TV's were purchased as replacements for sets that went out of use; 38 percent were purchased as additional TV's, and about 10 percent were upgrades of current TV's. The proportions of additional and upgrade purchases have been increasing over the past 15 years.
- Ten years after purchase, 75-80 percent of color TV's are still working and in use. It takes about 15 years for half of all sets to go out of use.
- Households owning electronic peripherals such as VCR's, home computers, video games, or cable TV are much more likely to own two or more color TV's.

- Households purchasing an electronic peripheral are substantially more likely than color TV households overall to purchase a new color TV in the same year. Furthermore, purchase of a peripheral also increases the likelihood of a color TV purchase in the immediately succeeding year -- particularly if the peripheral was a VCR.
- One percent of color TV households reported owning a projection TV and one percent indicated that they were very likely to purchase one in the next 12 months.
- Digital television, priced \$50 higher than current TV's, was seen as a likely purchase (somewhat or very) by 49 percent of color TV households. Stereo television, priced \$100 higher than current TV's, was considered a likely purchase by 30 percent of color TV households. Even with these price premiums, the survey indicated there was considerable interest in both digital and stereo television.

SECTION I

Current Ownership of Color TV Sets and Purchase Intention

Table I.1

DEMOGRAPHIC PROFILE OF COLOR TV HOUSEHOLDS
AND NON-OWNERS

| | Non-Owners | Single Color TV | Multiple Color TV's | All U.S Households |
|---------------------|------------|--------------------|------------------------|-----------------------|
| Household Size | | | | |
| 0ne | 40 | 28 | 14 | 23 |
| Two | 29 | 32 | 34 | 32 |
| Three | 13 | 16 | 20 | 18 |
| Four | 11 | 14 | 18 | 16 |
| Five or more | . 8 | 10 | 13 | 12 |
| Income | | •. | | |
| Less than \$10,000 | 46 | 26 | 12 | 24 |
| \$10,00 - \$14,999 | 20 | 17 | 11 | 14 |
| \$15,000 - \$24,999 | 18 | 27 | 23 | 24 |
| \$25,000 - \$39,999 | 11 | 21 | 29 | 23 |
| \$40,000 and above | 5 | 10 | 25 | 16 |
| Age | | | | |
| Under 30 | 34 | 21 | 12 | 21 |
| 30 - 39 | 18 | 22 | 25 | 22 |
| 40 - 49 | 7 | 13 | 20 | 16 |
| 50 - 59 | 10 | 14 | 20 | 15 |
| 60+ | 31 | 30 | 23 | 26 |
| Base: Households | (841) | (5871) | (5604) | |

Table I.2

OWNERSHIP AND PURCHASE HISTORY

| Number of | | Sets Acquired |
|---------------------------|--------------|----------------------|
| Color TV Sets | Sets In Use | During Past 15 Years |
| | - | - |
| 0ne | 55 | 32 |
| Two | 33 | 37 |
| Three | 9 | 20 |
| Four | 2 | 7 |
| Five or more | 1 | 5 |
| Base: Color Households | TV (11059) | . (11742) |

Table I.3

LOCATIONS IN HOUSE OF COLOR TV SETS

| Room | Total X | Consoles | Portables <u>%</u> |
|----------------------|----------|----------|--------------------|
| Living Room | 48 | 63 | 41 |
| Family Room/Playroom | 21 | 26 | 18 |
| Bedroom | 20 | 4 | 28 |
| Kitchen | 4 | 1 | 5 |
| Study/Den/Library | 5 | 5 | 6 |
| Other | 2 | 1 | 2 |
| Base: Color TV Sets | (14545)* | (4630) | (9500) |

^{*}The console and portable base is slightly less than the total base because of monitors, projection TV's, and no answers.

Table I.4

DEMOGRAPHIC PROFILE OF HOUSEHOLDS LIKELY TO BUY A NEW COLOR TV IN THE NEXT 12 MONTHS

| | All Color TV Households | Not Likely <u>%</u> | Somewhat Likely <u>%</u> | Very Lightly <u>%</u> | All U.S. Households |
|------------------------------|-------------------------|---------------------------|--------------------------------|-----------------------------|------------------------|
| Household Size | | | | | |
| One | 21 | 22 | 21 | 19 | 23 |
| Тwo | 33 | 34 | 31 | 33 | 32 |
| Three | 18 | 18 | 18 | 17 | 18 |
| Four | 16 | 16 | 17 | 16 | 16 |
| Five or more | 12 | 11- | 13 | 15 | 12 |
| Income | | | | | |
| Less than \$10,000 | 19 | 20 | 18 | 18 | 24 |
| \$10,000 - \$14,999 | 14 | 14 | . 14 | 15 | 14 |
| \$15,000 - \$24,999 | 25 | 25 | 24 | 25 | 24 |
| \$25,000 - \$39,999 | 25 | 25 | 25 | 25 | 23 |
| \$40,000 and above | 17 | 17 | 19 | 18 | 16 |
| <u>Age</u> | | | | | • |
| Under 30 | 17 | 16 | 19 | 21 | 21 |
| 30 - 39 | 23 | 23 | 25 | 28 | 22 |
| 40 - 49 | 16 | 16 | 18 | 17 | 16 |
| 50 - 59 | 17 | 17 | 16 | 15 | 15 |
| 60+ | 26 | 28 | 23 | 19 | 26 |
| Base: Color TV Households | (11670) | (8352) | (2264) | (1054) | |

SECTION II

Trends in the Purchase of Color
TV Sets: 1970-1984

Table II.1

TYPE OF COLOR TV SETS PURCHASED
1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|-------------|------------------|--------------------|-----------|---------|----|----------------|----------------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|
| | 1970 <u>X</u> | <u>71</u> <u>%</u> | <u>72</u> | 73 % | 74 | 75 <u>%</u> | 76 <u>%</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 <u>X</u> | <u>81</u> | <u>82</u> | <u>83</u> | <u>84</u> |
| Type of Set | | | | | | | | | | | | | | | |
| Console | 52 | 49 | 45 | 39 | 42 | 37 | 35 | 33 | 31 | 32 | 30 | 26 | 24 | 24 | 22 |
| Portable | 48 | 51 | 55 | 62 | 58 | 62 | 65 | 68 | 69 | 68 | 69 | 74 | 75 | 74 | 74 |

Base: Color TV Sets (1230) (660) (888) (753) (882)(1152) (984) (838)(1320)(1343)(1640)(1147)(1654)(1874)(2423)

Table II.2

COST OF COLOR TV SETS
1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|-----------------|------------------|-------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-------|-------|-----------|-----------|-----------|
| | 1970 <u>%</u> | 71 % | <u>72</u> | <u>73</u> | <u>74</u> | <u>75</u> | . <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 | 81 × | <u>82</u> | <u>83</u> | <u>84</u> |
| Cost | | | | | | | | | | | | | | | |
| Less than \$300 | 20 | 19 | 22 | 21 | 20 | 19 | 21 | 20 | 20 | 20 | 19 | 21 | 21 | 23 | 29 |
| \$300-\$499 | 41 | 44 | 43 | 44 | 41 | 44 | 46 | 46 | 45 | 41 | 47 | 45 | 44 | 45 | 40 |
| \$500-\$699 | 24 | 22 | 24 | 22 | 25 | 23 | 21 | 17 | 22 | 24 | 21 | 19 | 20 | 18 | 17 |
| \$700 + more | 15 | 16 | 12 | 14 | 14 | 14 | 13 | 17 | 14 | 15 | 13 | 15 | 15 | 15 | 14 |
| Mean | \$465 | \$457 | \$444 | \$438 | \$459 | \$457 | \$468 | \$469 | \$469 | \$478 | \$476 | \$473 | \$475 | \$458 | \$444 |

Base: Color TV Sets (1059) (578) (793) (673) (785) (985) (873) (728)(1177)(1164)(1439)(1012)(1499)(1678)(2204)

Table II.3

COST OF CONSOLE COLOR TV SETS
1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|---------------------|------------------|--------|-----------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|--------|-----------|
| | 1970 <u>%</u> | 71 % | <u>72</u> | <u>73</u> | 74 | <u>75</u> | <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | <u>1980</u> | <u>81</u> | <u>82</u> | 83 | <u>84</u> |
| Cost | | | | | | | <i>:</i> | | | | | | | | |
| Less than \$300 | 20 | 15 | 18 | 19 | 17 | 19 | 18 | 23 | 15 | 16 | 16 | 12 | 10 | 8 | 4 |
| \$300-\$499 | 40 | 43 | 35 | 35 | 32 | 34 | 35 | 30 | 27 | 27 | 26 | 19 | 18 | 16 | 18 |
| \$500-\$699 | 23 | 24 | 33 | 28 | 33 | 28 | 27 | 22 | 32 | 33 | 32 | 31 | 36 | 37 | 37 |
| \$700 + more | 18 | 18 | 14 | 19 | 18 | 19 | 20 | 25 | 26 | 25 | 27 | 38 | 36 | 39 | 40 |
| Mean | \$554 | \$574 | \$547 | \$559 | \$577 | \$568 | \$640 | \$637 | \$638 | \$637 | \$656 | \$708 | \$726 | \$682 | \$669 |
| Base: Color TV Sets | (558 |) (272 |) (356 |) (259 |) (327 |) (368 |) (302 |) (242 |) (377 |) (380 | (439) | (257 |) (371 |) (403 |) (498) |

Table II.4

COST OF PORTABLE COLOR TV SETS 1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|-----------------|------------------|--------------------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-------|-----------|-----------|-----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | 73 | <u>74</u> | <u>75</u> | <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 <u>%</u> | 81 | <u>82</u> | <u>83</u> | <u>84</u> |
| Cost | | | | | | | : | | | | | | | | |
| Less than \$300 | 19 | 21 | 25 | 22 | 23 | 18 | 23 | 19 | 22 | 21 | 20 | 24 | 25 | 28 | 38 |
| \$300-\$499 | 43 | 45 | 48 | 50 | 47 | 51 | 52 | 54 | 54 | 49 | 56 | 55 | 53 | 56 | 48 |
| \$500-\$699 | 26 | 20 | 17 | 18 | 19 | 20 | 17 | 14 | 16 | 20 | 16 | 14 | 15 | 11 | 10 |
| \$700 + more | 12 | 15 | 10 | 11 | 12 | 10 | 9 | 13 | 8 | 10 | 8 | 7 | 8 | 6 | 4 |
| Mean | \$356 | \$345 | \$344 | \$356 | \$369 | \$386 | \$372 | \$386 | \$376 | \$390 | \$393 | \$382 | \$377 | \$367 | \$349 |

Base: Color TV Sets (481) (294) (414) (404) (448) (599) (551) (479) (779) (765) (977) (737)(1099)(1225)(1597)

Table II.5

SCREEN SIZE OF COLOR TV SETS1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|---------------------|------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | <u>73</u> | <u>74</u> | <u>75</u> | <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | <u>1980</u> | <u>81</u> | <u>82</u> | <u>83</u> | <u>%</u> |
| Screen Size | | | | | | | | | | | | | ÷ | | |
| 12 inches or under | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 7 |
| 13-14 inches | 6 | 5 | 5 | 6 | 5 | 6 | 7 | 7 | 7 | 9 | 9 | 11 | 12 | 13 | 17 |
| 15-18 inches | 10 | 8 | 12 | 12 | 10 | 11 | 10 | 9 | 10 | 7 | 8 | 8 | 8 | 7 | 6 |
| 19-20 inches | 38 | 40 | 40 | 43 | 43 | 44 | 46 | 47 | 47 | 47 | 46 | 47 | 47 | 47 | 43 |
| 21 inches and over | 43 | 43 | 39 | 36 | 38 | 36 | 32 | 34 | 32 | 33 | 32 | 30 | 28 | 27 | 28 |
| Base: Color TV Sets | (1223) | (659) | (893) | (757) | (874) | (1156) | (993) | (836) | (1333) | (1347) | (1646) | (1151) | (1662) | (1897) | (2445) |

Table II.6

SCREEN SIZE OF CONSOLE COLOR TV SETS
1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|---------------------|------------------|--------------------|-----------|-----------|-----------|-----------|-------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | <u>73</u> | <u>74</u> | <u>75</u> | 76 | <u>77</u> | <u>78</u> | <u>79</u> | <u>1980</u> | <u>81</u> | <u>82</u> | <u>83</u> | <u>84</u> |
| Screen Size | | | | | | | | | | | | | | | |
| 15-18 inches | 4 | 1 | 4 | 3 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 |
| 19-20 inches | 24 | 21 | 18 | 16 | 18 | 17 | 18 | 12 | 16 | 17 | 15 | 13 | 12 | 15 | 10 |
| 21 inches and over | 72 | 78 | 78 | 81 | 77 | 78 | 80 | 86 | 81 | 80 | 83 | 86 | 86 | 84 | 87 |
| Base: Color TV Sets | (620) | (314) | (393) | (285) | (364) | (418) | (337) | (269) | (408) | (427) | (493) | (288) | (398) | (453) | (536) |

Table II.7

SCREEN SIZE OF PORTABLE COLOR TV SETS
1970-1984

| | | | | | | | Year | r of P | urchas | <u>e</u> | | | | | |
|---------------------|------------------|--------------------|-----------|-----------|-----------|-----------|-------------------------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | <u>73</u> | <u>74</u> | <u>75</u> | <u>76</u> ∶ <u>%</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 <u>%</u> | <u>81</u> | <u>82</u> | <u>83</u> | <u>84</u> |
| Screen Size | | | | | | | | | | | | | | | |
| 12 inches or under | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 9 |
| 13-14 inches | 11 | 10 | 9 | 9 | 8 | 9 | 11 | 10 | 9 | 13 | 13 | 14 | 15 | 18 | 22 |
| 15-18 inches | 16 | 14 | 19 | 17 | 15 | 16 | 14 | 12 | 14 | 10 | 11 | 11 | 11 | 9 | 7 |
| 19-20 inches | 54 | 59 | 58 | 59 | 61 | 60 | 61 | 64 | 61 | 61 | 60 | 59 | 59 | 58 | 53 |
| 21 inches and over | 13 | 10 | 9 | 8 | 10 | 10 | 7 | 8 | 10 | 10 | 10 | 11 | 8 | 8 | 8 |
| Base: Color TV Sets | (582) | (335) | (481) | (461) | (504) | (709) | (637) | (558) | (896) | (900) | (1124) | (838) | (1222) | (1383) | (1786) |

Table II.8

COLOR TV SETS EQUIPPED WITH REMOTE CONTROL
1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|---------------------------|------------------|--------------------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | <u>73</u> | <u>74</u> | <u>75</u> | : <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 <u>%</u> | <u>81</u> | <u>82</u> | <u>83</u> | <u>84</u> |
| With Remote Control | 7 | 7 | 6 | .7 | 8 | 10 | 12 | 14 | 16 | 17 | 23 | 28 | 30 | 39 | 43 |
| Without Remote Control | 93 | 93 | 94 | 93 | 92 | 91 | 88 | 86 | 84 | 83 | 77 | 72 | 70 | 62 | 57 |

Base: Color TV Sets (1228) (661) (889) (749) (880)(1162) (987) (842)(1326)(1354)(1649)(1161)(1671)(1898)(2451)

Table II.9

CONSOLE COLOR TV SETS EQUIPPED WITH REMOTE CONTROL 1970-1984

| | Year of Purchase | | | | | | | | | | | | | | |
|---------------------------|------------------|--------------------|-----------|----------------|-----------|----------------|-------------|-----------|-----------|-----------|------------------|-----------|-----------|-----------|-----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | 73 <u>%</u> | <u>74</u> | 75 <u>%</u> | · <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 <u>%</u> | <u>81</u> | <u>82</u> | <u>83</u> | <u>84</u> |
| With Remote Control | 8 | 10 | 5 | 10 | 10 | 11 | 11 | 16 | 18 | 25 | 31 | 41 | 44 | 55 | 58 |
| Without Remote Control | 92 | 91 | 95 | 90 | 90 | 89 | 89 | 84 | 82 | 75 | 69 | 59 | 57 | 45 | 42 |
| Base: Color TV Sets | (629) | (316) | (391) | (281) | (366) | (423) | (335) | (270) | (407) | (429) | (493) | (290) | (402) | (454) | (539) |

Table II.10

PORTABLE COLOR TV SETS EQUIPPED
WITH REMOTE CONTROL
1970-1984

| | : <u>Year of Purchase</u> | | | | | | | | | | | | | | |
|---------------------------|---------------------------|--------------------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|------------------|--------------------|-----------|-----------|-----------|
| | 1970 <u>%</u> | <u>71</u> <u>%</u> | <u>72</u> | <u>73</u> | <u>74</u> | 75 <u>%</u> | <u>76</u> | <u>77</u> | <u>78</u> | <u>79</u> | 1980 <u>%</u> | <u>81</u> <u>%</u> | <u>82</u> | <u>83</u> | <u>84</u> |
| With Remote Control | 6 | 5 | 6 | 6 | 7 | 8 | 13 | 13 | 15 | 14 | 19 | 23 | 25 | 32 | 37 |
| Without Remote Control | 94 | 95 | 94 | 95 | 93 | 92 | 88 | 87 | 85 | 86 | 81 | 77 | 75 | 68 | 63 |
| Base: Color TV Sets | (576) | (336) | (478) | (457) | (508) | (713) | (634) | (561) | (890) | (903) | (1125) | (845) | (1225) | (1385) | (1786) |

SECTION III

Replacement Cycle for Color TV Sets